

1 **The Claims**

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3 1-2. (Canceled)

4
5 3. (Previously presented) A computerized method for key-based
6 secure storage comprising:

7 downloading information and an access predicate that specifies
8 requirements for an application to access the information;

9 generating a seed value;

10 producing a hash seed value based on the seed value using a one-way hash
11 function;

12 generating an application storage key from the hash seed value;

13 encrypting the information using the application storage key; and

14 associating the access predicate with the encrypted information.

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16 4. (Previously presented) A computerized method for key-based
17 secure storage comprising:

18 downloading information and an access predicate that specifies
19 requirements for an application to access the information;

20 generating a seed value;

21 producing a first hash seed value based on the seed value using a one-way
22 hash function;

23 producing a second hash seed value based on the seed value and a user
24 identifier using a keyed hash function;

25 generating a user storage key from the second hash seed value;

encrypting the information using the user storage key; and
associating the access predicate with the encrypted information.

5. (Canceled)

6. (Previously presented) A computerized method for key-based
secure storage comprising:

downloading information and an access predicate that specifies
requirements for an application to access the information;

obtaining a storage key;

encrypting the information using the storage key;

associating the access predicate with the encrypted information;

obtaining an operating system storage key;

encrypting the access predicate with the operating system storage key; and

encrypting a plurality of other storage keys using the operating system
storage key, wherein the other storage keys are selected from the group consisting
of application storage keys and user storage keys.

7. (Previously presented) A computerized method for key-based
secure storage comprising:

downloading information and an access predicate that specifies
requirements for an application to access the information;

obtaining a storage key;

encrypting the information using the storage key;

associating the access predicate with the encrypted information;

1 generating a seed value;
2 generating an operating system storage key based on the seed value; and
3 encrypting the access predicate with the operating system storage key.
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5 8. (Previously presented) A computerized method for key-based
6 secure storage comprising:

7 downloading information and an access predicate that specifies
8 requirements for an application to access the information;

9 generating a seed value for the application;

10 producing an application hash seed value based on the seed value for the
11 application using an application-specific one-way hash function;

12 generating an application storage key from the application hash seed value;

13 generating a seed value for a user;

14 producing a first user hash seed value based on the seed value for the user
15 using a one-way hash function;

16 producing a second user hash seed value based on the first user hash seed
17 value and a user identifier using a keyed hash function;

18 generating a user storage key from the second user hash seed value, the
19 application storage key and the user storage key to encrypt information containing
20 a portion specific to an application and a portion specific to the user;

21 encrypting the information using the application storage key and the user
22 storage key; and

23 associating the access predicate with the encrypted information.
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25 9-14. (Canceled)

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2 15. (Previously presented) A computer system comprising:
3 a processing unit;
4 a system memory coupled to the processing unit through a system bus;
5 a computer-readable medium coupled to the processing unit through a
6 system bus;
7 a generate key function executed from the computer-readable medium by
8 the processing unit, wherein the generate key function causes the processing unit
9 to generate an operating system storage key based on an identity for the operating
10 system and based on a seed.

11
12 16. (Previously presented) A computer system comprising:
13 a processing unit;
14 a system memory coupled to the processing unit through a system bus;
15 a computer-readable medium coupled to the processing unit through a
16 system bus;
17 a generate key function executed from the computer-readable medium by
18 the processing unit, wherein the generate key function causes the processing unit
19 to generate an operating system storage key based on an identity for the operating
20 system;
21 an application specific one-way hash function executed from the
22 computer-readable medium by the processing unit, wherein the application
23 specific one-way hash function causes the processing unit to generate an
24 application storage key from a hashed seed; and
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1 a generate application key function executed from the computer-readable
2 medium by the processing unit, wherein the generate application key function
3 causes the processing unit to generate the hashed seed from an application seed.

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5 17. (Previously presented) A computer system comprising:
6 a processing unit;
7 a system memory coupled to the processing unit through a system bus;
8 a computer-readable medium coupled to the processing unit through a
9 system bus;

10 a generate key function executed from the computer-readable medium by
11 the processing unit, wherein the generate key function causes the processing unit
12 to generate an operating system storage key based on an identity for the operating
13 system;

14 a key-hash function executed from the computer-readable medium by the
15 processing unit, wherein the key-hash function causes the processing unit to
16 generate a user storage key from a hashed seed and an identity for the user;

17 a one-way hash function executed from the computer-readable medium by
18 the processing unit, wherein the one-way hash function causes the processing unit
19 to generate the hashed seed from a previously hashed seed; and

20 a generate user key function executed from the computer-readable medium
21 by the processing unit, wherein the generate user key function causes the
22 processing unit to generate the previously hashed seed from a user seed.

23
24 18. (Canceled)
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1 19. (Previously presented) A computer system comprising:
2 a processing unit;
3 a system memory coupled to the processing unit through a system bus;
4 a computer-readable medium coupled to the processing unit through a
5 system bus; and

6 a trusted operating system executed from the computer-readable medium by
7 the processing unit, wherein the trusted operating system causes the processing
8 unit to:

9 encrypt downloaded information using a storage key based on a seed
10 value,

11 encrypt an access predicate associated with the downloaded
12 information using an operating system storage key,

13 encrypt the seed value for the storage key using the operating system
14 storage key, and

15 associate the encrypted access predicate with the encrypted seed
16 value.

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18 20. (Previously presented) The computer system of claim 19,
19 wherein the trusted operating system further causes the processing unit to validate
20 each application requesting access to the downloaded information using the access
21 predicate, and decrypts the seed value for use by a validated application.

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23 21. (Previously presented) The computer system of claim 19,
24 wherein the storage key used to encrypt the downloaded information is specific to
25 an application.

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2 22. (Previously presented) A computer system comprising:
3 a processing unit;
4 a system memory coupled to the processing unit through a system bus;
5 a computer-readable medium coupled to the processing unit through a
6 system bus; and
7 a trusted operating system executed from the computer-readable medium by
8 the processing unit, wherein the trusted operating system causes the processing
9 unit to encrypt downloaded information using a storage key based on a seed value,
10 and wherein the storage key used to encrypt the downloaded information is
11 specific to a user.

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13 23-26. (Canceled)

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15 27. (Previously presented) A computer system comprising:
16 a processing unit;
17 a system memory coupled to the processing unit through a system bus;
18 a computer-readable medium coupled to the processing unit through a
19 system bus; and
20 an authenticated operating system configured to execute on the processing
21 unit from the computer-readable medium, the authenticated operating system
22 causing the processing unit to encrypt downloaded information using a storage key
23 based on a seed value;
24 wherein the authenticated operating system further causes the processing
25 unit to encrypt an access predicate associated with the downloaded information

1 using an operating system storage key, to encrypt the seed value for the storage
2 key using the operating system storage key, and to associate the encrypted access
3 predicate with the encrypted seed value.
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5 28. (Previously presented) The computer system of claim 27, wherein
6 the authenticated operating system further causes the processing unit to validate
7 each application requesting access to the downloaded information using the access
8 predicate, and decrypts the seed value for use by a validated application.
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10 29. (Previously presented) The computer system of claim 27, wherein
11 the storage key used to encrypt the downloaded information is specific to an
12 application.
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14 30. (Previously presented) The computer system of claim 27, wherein
15 the storage key used to encrypt the downloaded information is specific to a user.
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